

Title (en)

DECOUPLING BETWEEN CONSUMABLE AND IMAGE FORMING APPARATUS

Title (de)

ENTKOPPLUNG ZWISCHEN VERBRAUCHSMATERIAL UND BILDERZEUGUNGSVORRICHTUNG

Title (fr)

DÉCOUPLAGE ENTRE UN PRODUIT CONSOMMABLE ET UN APPAREIL DE FORMATION D'IMAGE

Publication

EP 3877815 A4 20220824 (EN)

Application

EP 20854815 A 20200108

Priority

- KR 20190101735 A 20190820
- US 2020012693 W 20200108

Abstract (en)

[origin: WO2021034344A1] An example image forming apparatus includes a coupling device to perform coupling or decoupling between the image forming apparatus and a consumable, a sensor to sense an opening of a cover of the image forming apparatus, and a processor. When receiving an opening sensing signal of the cover from the sensor, the processor determines whether the consumable coupled to the image forming apparatus corresponds to a consumable access condition, and based on a result of determination, transmits a signal requesting decoupling of the consumable corresponding to the consumable access condition to the coupling device.

IPC 8 full level

G03G 21/00 (2006.01); **G06F 3/12** (2006.01)

CPC (source: EP KR US)

G03G 15/502 (2013.01 - KR US); **G03G 15/5079** (2013.01 - US); **G03G 15/5091** (2013.01 - US); **G03G 15/55** (2013.01 - KR); **G03G 15/553** (2013.01 - US); **G03G 21/1633** (2013.01 - US); **G03G 21/1647** (2013.01 - US); **G03G 21/1839** (2013.01 - EP); **G03G 21/1875** (2013.01 - EP); **G03G 15/0877** (2013.01 - EP); **G03G 15/0881** (2013.01 - EP); **G03G 2221/1654** (2013.01 - EP)

Citation (search report)

- [XY] US 2017315499 A1 20171102 - MAEDA HIROYUKI [JP]
- [Y] JP 2016177115 A 20161006 - SHARP KK
- See also references of WO 2021034344A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

WO 2021034344 A1 20210225; CN 113383278 A 20210910; CN 113383278 B 20240806; EP 3877815 A1 20210915; EP 3877815 A4 20220824; KR 20210022340 A 20210303; US 11460799 B2 20221004; US 2022179354 A1 20220609

DOCDB simple family (application)

US 2020012693 W 20200108; CN 202080011911 A 20200108; EP 20854815 A 20200108; KR 20190101735 A 20190820; US 202017299757 A 20200108